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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,592	11/21/2003	Joseph John Vandenberg	4189-PA27	3276
29370	7590	01/30/2006	EXAMINER	
ROBERT A. PARSONS 4000 N. CENTRAL AVENUE, SUITE 1220 PHOENIX, AZ 85012			RAHLL, JERRY T	
			ART UNIT	PAPER NUMBER
			2874	

DATE MAILED: 01/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

10/719,592

Examiner

Jerry T. Rahll

Applicant(s)

VANDENBERG, JOSEPH JOHN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date ____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____

AKM ENAYET ULLAH
PRIMARY EXAMINER

Jerry T. Rahll

DETAILED ACTION

1. Please note that this office action points out the same allowable subject matter of the action mailed on 09 May 2005. Due to examiner error, the previous action did not list all allowable claims.

Drawings

2. The drawings submitted on 10 August 2005 have been reviewed and determined to facilitate understanding of the invention. The drawings are accepted as submitted.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Claims 1-20 are allowed. Claims 1-20 describe an optical component alignment apparatus including a supporting substrate having a component mounting surface, a thermally conductive material positioned on first area of the component mounting surface, an optoelectronic component positioned on the thermally conductive material, the optoelectronic component defining an optical axis substantially parallel the component mounting surface, a conductive layer positioned on the component mounting surface adjacent the thermally conductive material, a dielectric layer formed on the conductive layer, where the conductive layer and the dielectric layer define a bondline thickness, and an optical block fixedly positioned on the dielectric layer, defining an optical axis substantially parallel with the component

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mounting surface and the bondline thickness selected to align the optical axis of the optical block to the optical axis of the optoelectronic component.

5. U.S. Patent No. 6,713,862 to Palanisamy et al. describes an optical component alignment apparatus (99) including a supporting substrate (100) having a component mounting surface, a thermally conductive material (102) positioned on first area of the component mounting surface, an optoelectronic component (104) positioned on the thermally conductive material, the optoelectronic component defining an optical axis substantially parallel the component mounting surface, a dielectric layer (106) formed on the conductive substrate (100), where the conductive layer and the dielectric layer define a bondline thickness, and an optical block (108) fixedly positioned on the dielectric layer, defining an optical axis substantially parallel with the component mounting surface and the bondline thickness selected to align the optical axis of the optical block to the optical axis of the optoelectronic component. Palanisamy et al. does not describe a conductive layer positioned on the component mounting surface adjacent the thermally conductive material.

6. U.S. Patent No. 6,713,862 to Palanisamy et al. remains the closest prior art of record in this application. For the reasons stated above, however, Claims 1-20 herein are deemed to patentably distinguish over Palanisamy et al. and all other prior art of record.

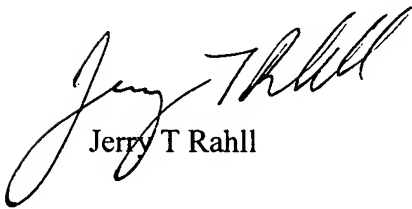
Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry T. Rahll whose telephone number is (571) 272-2356. The examiner can normally be reached on M-Th (8:30-5:30).

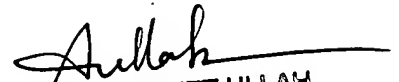
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8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jerry T Rahll



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PRIMARY EXAMINER